Irina N. Sokolik

CURRICULUM VITAE

Sokolik, Irina N. Professor
School of Earth and Atmospheric Sciences
Georgia Institute of Technology
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PERSONAL DATA:
Naturalized U.S. citizen

EDUCATION:

1984	M.S.	Atmospheric physics	Moscow Institute of Physics and Technology
1989	Ph.D.	Atmospheric physics	Russian Academy of Sciences, Moscow

EMPLOYMENT HISTORY:

2003-present	Professor, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA.
1999-2003	Associate Professor, Program in Atmospheric and Oceanic Sciences, University of Colorado at Boulder.
1997-1999	Research Associate, PAOS/LASP, University of Colorado at Boulder.
1996-1997	Research Scientist, Bay Area Environmental Research Institute, and NASA/Ames Research Center, Moffett Field, CA.
1993-1996	Research Associate, NASA/Ames Research Center, Moffett Field, CA
1991-1993	Visiting Scientist, CIRES, University of Colorado at Boulder.
1989-1993	Senior Scientist, Institute of Atmospheric Physics, Russian Academy of Sciences, Moscow.
1984-1989	Junior Research Scientist, Institute of Atmospheric Physics, Russian Academy of Sciences, Moscow.

CURRENT FIELD OF INTEREST:

Radiative transfer and remote sensing; atmospheric aerosols and clouds and their impacts on the Earth's radiative balance, hydrological cycle, air quality, and environment; mesoscale aerosol transport modeling; aerosol-land-atmosphere interactions; integration of satellite data with regional transport models, and Earth system science.

TEACHING EXPERIENCE:
Atmospheric radiative transfer
Remote sensing of the atmosphere and oceans
Clouds, aerosols and climate
Special Topic: Mathematical methods in climate
Aerosol and Precipitation
Modeling and measurements of atmospheric aerosols
Radiative transfer processes in planetary atmospheres

PEER REVIEWED PUBLICATIONS (underscore indicates Sokolik students, post docs or researchers):

Lu, Z., and I.N. Sokolik, The effect of smoke emission amount on cloud properties and precipitation: A case study of Canadian boreal wildfires of 2007. *JGR (submitted)*

Xi, X., and I.N. Sokolik, Impact of Asian dust aerosol and surface albedo on photosynthetically active radiation and surface radiative balance in dryland ecosystems. Advances in Meteorology, 2012 (in press)

Sokolik I.N, Dust, in *Encyclopedia of Atmospheric Sciences.* Second Edition. Academic Press, London (in press)

Young, C., I.N. Sokolik, and J. Dufek, Regional radiative impact of volcanic aerosol from the 2009 eruption of Redoubt volcano, *Atmos. Chem. Phys. Disc*., acp-2011-662, 2012.

Alston, E., I.N. Sokolik, and O. Kalashnikova, Seasonal and interannual variability of atmospheric aerosols in the U. S. Southeast from ground and space based measurements over the past decade. *Atmos. Meas. Techn.*, amt-2011-161, 2011.

Zhang, H., I. N. Sokolik, and J. A. Curry, Impact of Saharan dust as nucleating aerosols on Hurricane Helene's early development, *Atmos. Chem. Phys. Disc*., acp-2011-246, 2011.

Karydis, V.A., P. Kumar, D. Barahona, I.N. Sokolik, and A. Nenes, On the effect of dust particles on global CCN and cloud droplet number. *J.Geophys. Res., doi:* 2011JD016283R, 2011.

Kumar, P., I.N. Sokolik, and A. Nenes, Measurements of cloud condensation nuclei activity and droplet activation kinetics of wet processed regional dust samples and minerals. *Atmos. Chem. Phys.*, acp-2011-272, 2011.

Alston, E., I.N. Sokolik, and B. Doddridge, Investigation into the use of satellite data in aiding characterization of particulate air quality in the Atlanta, Georgia metropolitan area, *Journal of the Air & Waste Management Association,* 61:211–225, 2011.

Lathem, T.L., P. Kumar, A. Nenes, J. Dufek, I.N. Sokolik, M. Trail, and A. Russell, Hygroscopic properties of volcanic ash. *Geophys. Res. Lett*., doi:10.1029/2011GL047298, 2011.

Kumar, P., I.N. Sokolik, and A. Nenes, Measurements of cloud condensation nuclei activity and droplet activation kinetics of fresh unprocessed regional dust samples and minerals. *Atmos. Chem. Phys.*, 11, 1-15, 2011.

Sokolik, I.N., J. A. Curry, and V. Radionov, Interactions of Arctic aerosols with land-cover and land-use changes in Northern Eurasia and their role in the Arctic climate system. In *Arctic land-cover and land-use in a changing climate: Focus on Eurasia*, G.Gutman and A. Reissell (Eds.), Springer, 2011.

Waggoner, D., and I.N. Sokolik, Seasonal dynamics and regional features of MODIS-derived land surface characteristics in dust source regions of East Asia, *Remote Sensing of Environment,* 114, 2126-2136, 2010.

Kumar, P., A. Nenes, and I.N. Sokolik, The importance of adsorption for CCN activity and hygroscopic properties of mineral dust aerosol. *Geophys. Res. Lett*., 36, L24804, doi:10.1029/2009GL040827, 2009.

Darmenov, A., and I.N. Sokolik, Spatial variability of satellite visible radiances in dust and dust-cloud mixed conditions: implications for dust detection. *Geophys. Res. Lett*., doi:10.1029/ 2009GL038383, 2009.

Darmenova, K., I.N. Sokolik, Y. Shao, B. Marticorena, and G. Bergametti, Development of a physically-based dust emission module within the Weather Research and Forecasting (WRF) model: Assessment of dust emission parameterizations and input parameters for source regions in Central and East Asia. *J. Geophys. Res*., 114, D14201, doi:10.1029/2008JD011236, 2009.

Groisman, P.Ya., E. A. Clark, V. M. Kattsov, D. P. Lettenmaier, I.N. Sokolik, et al., The Northern Eurasia Earth Science Partnership: An example of science applied to societal needs. *Bulletin of American Meteorological Society*, 5, 671-688, 2009.

Kumar, P., I.N. Sokolik, and A. Nenes, Parameterization of cloud droplet formation for global and regional models: including adsorption activation from insoluble CCN, *Atmos. Chem. Phys.*, *9*, 2517-2532, 2009.

Sokolik I.N., Global radiation balance. *In Encyclopedia of Ecology*, E. Jorgensen (Ed.), Elsevier, 2008.

Sokolik, I.N., and J. A. Curry, Impact of aerosols on the hydrological cycle in the Arctic. GEWEX News, v. 17, 11-12, 2007.

Groisman, P.Ya., I.N. Sokolik, G. Brasseur, K. Hibbard, and J. Katzenberger, Northern Eurasia land surface properties and change and its role in the Global Earth System. EOS, 88, 46, 2007.

Yang P., Q. Feng Q., G. Hong, G.W. Kattawar, W.J. Wiscombe, M.I. Mishchenko, O. Dubovik, I. Laszlo, and I.N. Sokolik, Modeling of the scattering and radiative properties of nonspherical dust-like aerosols. *J. of Aerosol Science*, 38, 995-1014, 2007.

Jeong, G., and I.N. Sokolik, The effect of mineral dust aerosols on photolysis rates in clean and polluted marine environments. *J. Geophys. Res.*, 112, D21308, doi:10.1029/2007JD008442, 2007.

Boer, G.J., I.N. Sokolik, and S.T. Martin, Infrared optical constants of aqueous sulfate-nitrate-ammonium multi-component tropospheric aerosols from attenuated total reflectance measurements: Part I. Results and Analysis of Spectral Absorbing Features. *J. Quant. Specrtrocs. Radiat. Transfer*, doi:10.1016/j.jqsrt.2007.02.017, 2007.

Boer, G.J., I.N. Sokolik, and S.T. Martin, Infrared optical constants of aqueous sulfate-nitrate-ammonium multi-component tropospheric aerosols from attenuated total reflectance measurements: Part II. An examination of mixing rules. *J. Quant. Specrtrocs. Radiat. Transfer*, doi:10.1016/j.jqsrt.2007.02.018, 2007.

Kampe, T. U., and I.N. Sokolik**,** Remote sensing retrievals of fine mode aerosol optical depth and impacts on its correlation with CO from biomass burning. *Geophys. Res. Lett*., L12806, doi:10.1029/2007GL029805, 2007.

Groisman, P.Ya., H.H. Shugart, and I.N. Sokolik, Preface to Special Issue on Northern Eurasia Regional Climate and Environmental Change, *Global and Planetary Change*, 56, i-iv, 2007.

Darmenova K., and I.N. Sokolik, Assessing uncertainties in dust emission in the Aral Sea region caused by meteorological fields predicted with a mesoscale model, *Global and Planetary Change*, 56, 297-310, 2007.

Kim, S., L.G. Huey, R.E. Stickel, D.J. Tanner, J. H. Crawford, J.R. Olson, G. Chen, W. H. Brune, X. Ren, R. Lesher, P. J. Wooldridge, T. H. Bertram, A. Perring, R.C. Cohen, B., B. Lefer, R. E. Shetter, M. Avery, G. Diskin, and I.N. Sokolik, Measurement of HO_2NO_2 in the upper troposphere during INTEX-NA 2004, J. Geophys. Res., D01102, doi:10.1029/2005JD007008, 2007.

Lafon S., I.N. Sokolik**,** J.L. Rajot, S. Caquineau, and A. Gaudichet, Characterization of iron oxides: implications to light absorption by mineral dust aerosols. *J. Geophys. Res*., *111*, D21207, doi:10.1029/2005JD007016, 2006.

Arimoto R., Y. J. Kim, Y. P. Kim, P. K. Quinn, T. S. Bates, T. Anderson, S. Gong, I. Uno, M. Chin, B. J. Huebert, A. D. Clarke, Y. Shinozuka, R. Weber, J. Anderson, S. A. Guazzotti, R. C. Sullivan, D. A. Sodeman, K. A. Prather, and I. N. Sokolik, Characterization of Asian Dust during ACE-Asia, *Global and Planetary Change*, 52, 23-56, 2006.

Hong, G., P. Yang, H.L. Huang, S. Ackerman, and I.N. Sokolik, Simulation of high-spectral-resolution infrared signature of overlapping cirrus clouds and mineral dust, *Geophys. Res. Lett.*, 33, L04805, doi:10.1029/2005GL024381, 2006.

Darmenov, A., and I.N. Sokolik, Identifying the regional thermal-IR radiative signature of mineral dust with MODIS, *Geophys. Res. Lett*., 32, L16803, doi:10.1029/2005GL023092, 2005.
Miecznik G., R. Illing, S. Petroy, and I.N. Sokolik, Retrievals of aerosol properties from multi-angular and multi-spectral polarized radiances: Sensitivity study. *Applied Optics*, 44, 4186-4204, 2005.

Darmenova, K., I.N. Sokolik, and A. Darmenov, Characterization of East Asian dust outbreaks in Spring of 2001 using ground-based and satellite data. *J. Geophys. Res*., doi:10.1029/2004J D004842, 2005.

Kalashnikova, O., R. Kahn, I.N. Sokolik, W.-H. Li, The ability of multi-angle remote sensing observations to identify and distinguish mineral dust types: Part 1. Optical models and retrievals of optically thick plumes. *J. Geophys. Res*., 110, D18S14, doi:10.1029/2004JD004550, 2005.

Xuan, J., I.N. Sokolik, J. Hao, F. Guo, H. Mao, and G. Yang, Identification and characterization of sources of atmospheric mineral dust in east Asia. *Atmos. Envir.*, 38, 6239-6252, 2004.

Kalashnikova, O., and I.N. Sokolik, Modeling optical properties of nonspherical soil-derived dust aggregates. *J. Quant. Spectrosc. Radiative Transfer*, 87, 137-166, 2004.

Sokolik I.N, Dust, in Holton, J.P., J.A. Curry, and J. Doyle, (Eds.), *Encyclopedia of Atmospheric Sciences.* Academic Press, London, pp.668-672, 2003.

Sokolik I.N (contributing author) Chapter 4. Tropospheric aerosols, in G.P. Brasseur, R.G. Prinn, A. P. Pszenny (Eds.), *Atmospheric chemistry in a changing world*. Springer, pp.125-155, 2003.

Xuan, J., and I.N. Sokolik, Characterization of sources and emission rates of mineral dust in Northern China. *Atmos. Envir*. 36, 4863-4876, 2002.

Kalashnikova, O., and I.N. Sokolik, Importance of shapes and composition of wind-blown dust particles for remote sensing at solar wavelengths. *Geophys. Res. Let*., **29**, No.10, 10.1029/2002GL014947, 2002.

Sokolik, I.N., The spectral radiative signature of wind-blown mineral dust: Implications for remote sensing in the thermal IR region. *Geophys. Res. Let.,* 10.10292002GL105910, 2002.

Sokolik I.N., Dust, in *Encyclopedia of Global Environmental Change*. John Wiley&Sons Ltd, 2001.

Sokolik I.N., D. Winker, G. Bergametti, D. Gillette, G. Carmichael, Y. Kaufman, L. Gomes, L. Schuetz, and J. Penner. Introduction to special section on mineral dust: outstanding problems in quantifying the radiative impact of mineral dust, *J. Geophys. Res*., 106, 18,015-18,028, 2001.

Quijano, A. L., I. N. Sokolik, and O.B. Toon. Radiative heating rates and direct radiative forcing by mineral dust in cloudy atmospheric conditions. *J. Geophys. Res*., 105, 12,207-12,219, 2000.

Quijano, A.L., I.N. Sokolik, and O.B. Toon, Influence of the aerosol vertical distribution on the retrievals of aerosol optical depth from satellite radiance measurements. *Geophys. Res. Let*., 27, 3457-3460, 2000.

Sokolik I.N. and O.B. Toon. Incorporation of mineralogical composition into models of the radiative properties of mineral aerosol from UV to IR wavelengths. *J. Geophys. Res*., 104, 9423-9444, 1999.

Sokolik, I.N., Nuts and bolts of radiative forcing by mineral dust. *IGACtivities Newsletter*, Issue 17, 12-14, May 1999.

Sokolik, I.N., Challenges add up in quantifying radiative impact of mineral dust. *Eos*, 80, p.578, 1999.

Sokolik, I.N. and O.B. Toon. Modeling the radiative properties of mineral aerosols for climate studies and remote sensing applications. *J. Aerosol Sci*. 29, Suppl. 1, S1199-S1200, 1998.

Sokolik, I.N., O.B. Toon, and R.W. Bergstrom. Modeling the radiative characteristics of airborne mineral aerosols at infrared wavelengths. *J. Geophys. Res*. 103, 8813-8826, 1998.

Sokolik, I.N. and O.B. Toon. Regional direct radiative forcing by the airborne mineral aerosols. *J. Aerosol Sci*. 28, Suppl. 1, S655-S657, 1997.

Sokolik, I.N., F.P.J. Valero, and P. Pilewskie. Spatial and temporal variations of the radiative characteristics of the plume from the Kuwait oil fires. In "Biomass burning and global climate change", Levine J.S., Ed., MIT Press: Cambridge, MA, pp. 889-893, 1996.

Sokolik, I.N. and O.B. Toon. Direct radiative forcing by anthropogenic airborne mineral aerosols. *Nature* 381, 681- 683, 1996.

Sokolik, I.N. and O.B. Toon. Direct radiative forcing by airborne mineral dust. *J. Aerosol Sci*. 27, Supplement 1, S11, 1996.

Sokolik, I.N. and Golitsyn G.S. Investigation of optical and radiative properties of atmospheric dust aerosols. *Atmos. Envir*. 16, 2509-2517, 1993.

Panchenko, M.V., Terpugova S.A., Bodhaine B.A., Isakov A.A., Sviridenkov M.A., Sokolik I.N., Romashova E.V., Nazarov B.I., Shukurov A.K., Chistyakova and Jonhson T.C. Optical investigation of dust storms during U.S.S.R.-U.S. experiments in Tadzhikistan, 1989. *Atmos. Envir*. 16, 2503-2508, 1993.

Sviridenkov M.A., Gillettee D.A., Isakov A.A., Sokolik I.N., Smirnov V.V., Belan B.D., Panchenko M.V., Andronova A.V., Kolomiets S.M., Zhukov V.M., and Zhukovsky D.A. Size distribution of dust aerosol measured during the Soviet-American experiment in Tadzhikistan, 1989. *Atmos. Envir*. 16, 2518-2523, 1993.

Sokolik I.N., Andronova A.V., and Jonhson T.C. Complex refractive index of atmospheric dust aerosols. *Atmos. Envir*. 16, 2495-2502, 1993.

Sokolik I.N. Microphysical, optical and radiative properties of arctic aerosols. *Izvestiya Acad.Sci., Atmos. and Oceanic Physics*, 7, 675-688, 1992.

Sokolik I.N. and G.S. Golitsyn. Optical and radiative properties of dust aerosol. *Izvestiya Acad.Sci., Atmos. and Oceanic Physics*, 28, 787-797, 1992.

Andronova A.V., Belan B.D., Gillette D.A., Isakov A.A., Zhukov V.M., Zhukovsky D.A., Kolomiets S.M., Panchenko M.A., Sviridenkov M.A., Sokolik I.N., Microphysical characteristics of the dust aerosol by the results of the Soviet-American experiment. *Izvestiya Acad.Sci., Atmos. and Oceanic Physics*, 28, 798-804, 1992.

Isakov A.A., Nazarov B.I., Panchenko M.V., Pirogov S.M., Romashova E.V., Sviridenkov M.A., Sokolik I.N., Terpugova S.A., Fedorova E.K., Chistyakova E.I. and A.K. Shukurov, Optical properties of dust plumes. *Izvestiya Acad.Sci., Atmos. and Oceanic Physics*, 28, 805-812, 1992.

Pirogov S.M., Romashova E.V. and I.N. Sokolik, Measurements of optical and radiative characteristics of dust aerosol. In : *Joint Soviet-American experiment on arid aerosol: Tadzhikiztan, USSR, September 1989*, Ed. Golitsyn G.S., Hydrometeoizdat, Leningrad, 21-26, 1992.

Andronova A.V. and I.N. Sokolik, Optical constants of atmospheric dust aerosols. In : *Joint Soviet-American experiment on arid aerosol: Tadzhikiztan, USSR, September 1989*. Ed. Golitsyn G.S., Hydrometeoizdat, Leningrad, 45-52, 1992 .

Sokolik I.N. Parameterization of the optical characteristics of a polydispersed aerosol system. *Atmos. Optics* 2, 472-476, 1989.

Ginzburg A.S. and I.N. Sokolik, Transmission and reflection of light by a uniform layer of absorbing aerosol. *Izvestiya Acad.Sci., Atmos. and Oceanic Physics* v.25, 9, 700-704, 1989.

Sokolik I.N. Investigation of optical and radiative-climatic effects of absorbing aerosols. Ph.D. thesis, Ins. of Atmos. Physics, USSR Acad.Sci., Moscow, 116 p., 1989.

Sokolik I.N. Investigation and parameterization of optical characteristics of polydispersive absorbing aerosols. Publications of the Ins. of Atmos. Physics, USSR Acad.Sci., Moscow, 46 p., 1989.

Sokolik I.N. Interpretation of the measurements of optical characteristics of smoke aerosol. *Izvestiya Acad.Sci., Atmos. and Oceanic Physics* 24, 200-204, 1988.

Sokolik I. N., Tarasova T.A., and Feigelson E.M. Optical characteristics of smoked atmosphere and radiative heating. *Meteorologya and Gidrologya*, 11, 53-61, 1986.

MEETINGS AND SYMPOSIA (underscore indicates Sokolik students, post docs or researches)**:**

Invited:

Sokolik, I.N., Roles of atmospheric dust in the Earth system, Ninth Santa Fe Conference on Rock Magnetism, Santa Fe, NM, June 21-24, 2012.

Sokolik, I.N., Interactions between dust, land-use/land-cover change and climate in Asian drylands, NASA Goddard, April 19, 2012.

Kalashnikova, O.V., M. A. Garay, I. N. Sokolik, R. Kahn, A. Lyapustin, D. J. Diner, J. Lee, O. Torres, G. G. Leptoukh, and M. de la Torre Juarez, MISR decadal observations of mineral dust: property characterization, and climate applications. 2011 Fall Meeting, AGU, San Francisco, CA, Dec. 5-9, 2011.

Sokolik, I.N., Characterization of morphology of mineral dust particles for remote sensing applications and atmospheric transport models. A44C-05, 2010 Fall Meeting, AGU, San Francisco, CA, Dec. 13-19, 2010.

Sokolik, I.N., G. Boer, H. Choi, A. Darmenov, O. Kalashnikova, and D. M. Winker, Towards an integrated framework for characterizing mineral dust aerosol from multi-satellite, multi-sensor observations and regional transport model data, EOS Trans. AGU, 90(52), Fall Meet. Suppl. 2009.

Sokolik, I.N., Mineral dust, AAAR tutorial, 26 Oct., Minneapolis, MN, 2009.

Sokolik, I.N., Progress and challenges in dust radiative modeling for passive/active remote sensing and climate models. Third International Dust Workshop, Leipzig, Germany, September, 2008.

Sokolik, I.N., A. Darmenov, K. Darmenova, Characterization of atmospheric mineral dust with remote sensing and the regional transport model WRF-DuMo. EOS Trans. AGU, Joint Assembly, Suppl.2008.

Sokolik, I.N., Atmospheric aerosols in high altitudes. NEESPI Regional Science Team Meeting devoted to the High Latitudes/ iLEAPS , Helsinki, Finland, 2-6 June, 2008.

Sokolik, I.N., Overview of radiation and arctic aerosol interactions with LCLUC. NASA LCLUC Science Team meeting, 28 April – May2, Adelphi, MD, 2008.

Sokolik, I.N., Aerosols and land interactions. NASA LCLUC Science Team meeting, 4-6 April, Adelphi, MD, 2007.

Sokolik, I.N., Atmospheric Aerosols and Air Pollution, Northern Eurasia Earth Partnership Initiative Summit, 3-4 May, Helsinki, Finland, 2007.

Sokolik, I.N., Impacts of atmospheric aerosols and air pollution in Northern Eurasia and their dynamics, Aspen Climate Change Institute, 12-16 August 2007, Aspen, CO, 2007.

Sokolik, I.N., Remaining and emerging challenges in measuring and modeling mineral dust aerosol, EUFAR Experts Workshop, 13- 15 September, Paris, 2006.

Sokolik, I.N., Towards developing improved treatments of mineral dust aerosol for climate and remote sensing studies, Global Warming and the Next Ice Age and Aerosol Workshop, 17- 21 July, Santa Fe, 2006.

Sokolik, I.N., Climatic impacts of aerosols in Northern Eurasia, Institute of Geography/ NEESPI, 7-8 November, Beijing, China, 2006.

Sokolik, I.N., Impact of atmospheric mineral dust on the surface energy balance and PAR in the NEESPI study domain. AGU, Fall Meeting, 2006.

Sokolik, I.N., Aerosol impacts on climate of Northern Eurasia, IGBP/NEESPI Workshop, San Francisco, CA, 5-7 Dec., 2005.

Sokolik, I.N., Radiative forcing by dust and black carbon, The Aspen Global Change Institute, Experts meeting on Aerosols and the Hydrological Cycle, Aspen, CO, July, 2004.

Sokolik, I.N., Nuts and bolts of radiative forcing by mineral dust. NOAA/CMDL, Boulder, 2 May 2003.

Sokolik, I.N., Recent advances and remaining challenges in predicting radiative properties of mineral dust, Second International Workshop on Mineral Dust, September 10-12, Paris, France, 2003.

Sokolik, I.N., Dust effects: An Overview. International Workshop on Validation Data Sets for Modeling Mineral Aerosols in Global Climate Cycles. Max-Planck-Institute for Biogeochemistry, Jena, Germany, May 1-5, 2002.

Sokolik, I.N., Radiative impacts of Asian dust. Sixth International Aerosol Conference. Taipei, Taiwan, September 8-13, 2002.

Sokolik, I.N., Remote sensing of mineral dust aerosols in the UV/visible and IR regions. SPIE 3th International Asia-Pacific Environmental Remote Sensing Symposium, October 23-27, China, 2002.

Sokolik, I.N., Improving dust optical models to adequately predict diverse dust radiative impacts. Dust Symposium, IAMAS, Austria, 2001.

Sokolik, I.N., Capability of IR hyperspectral remote sensing in detecting wind-blown mineral dust. First MURI Workshop, University of Wisconsin, 30-31 August, 2001.

Sokolik, I.N., Radiative forcing of mineral dust. NOAA/CMDL, Boulder, Aug.17, 2000.

Sokolik, I.N., Modeling the evolution of tropospheric aerosols for remote sensing applications and climate studies. Presentation at the Department of Atmospheric and Oceanic Sciences, University of Wisconsin - Madison, July, 1999.

Sokolik, I.N., Mineral aerosol: evolution and impact. ACE-Asia Science Team Meeting, Kunming, China, November 1999.

Sokolik, I.N., Modeling the radiative properties of Asian multicomponent aerosols. ACE-Asia science team meeting. Cheju Island, Korea, 10-12 Nov., 1998.

Sokolik, I.N., Radiative forcing by atmospheric aerosols. LASP, University of Colorado at Boulder, May 1, 1997.

Sokolik, I.N., Radiative forcing by airborne mineral aerosol. Aerosol Workshop, GISS, New York, June 3, 1997.

Sokolik, I.N., Radiative properties of atmospheric aerosols: modeling and measurements. ACE-3 Science Team Meeting. Nagoya, Japan, Nov. 15, 1997.

Sokolik, I.N., Radiative properties of Arctic aerosols. NASA/Ames Research Center, Moffett Field, April, 1995.

Sokolik, I.N., Review on Arctic aerosol studies**.** US-Russia Working Team meeting on Arctic Study, Cherskiy, Russia, April, 1994.

Sokolik, I.N., Major results of a Joint Soviet-American experiment to study dust physical and chemical properties. Working Group VIII under US-USSR Agreement on the Protection of the Environment, Asheville, October, 1993.

Sokolik, I.N., Optical properties of major types of smoke aerosols. Department of Atmospheric Sciences, University of Washington, Seattle, May, 1992.

Sokolik, I.N., Retrieval of optical characteristics of atmospheric aerosols**.** NASA/Ames Research Center, Moffett Field, September, 1992.

Contributed:

Kalashnikova, O., Garay, M., Goetz, M., Chodas, M., Kassabian, S., and I.N. Sokolik, MISR perspective on dust spatial and temporal variability in major desert sources: Relation to synoptic and global climate patterns. IGARS, Munich, Germany, 22-27, July, 2012.

Zhang, H., I. N. Sokolik, J. A. Curry, and Y.Deng, Examining the potential impact of the Saharan Air Layer on Atlantic tropical cyclone development with satellite data and Ensemble WRF-Chem simulations. 30th Conference on Hurricanes and Tropical Meteorology, Ponte Vedra Beach, FL, 15-20 April 2012.

Bergin, M.H., J.E. Dibb, B. Strellis, I.N. Sokolik, F. Domine, P.J. Sheridan, and J.A. Ogren, Aerosol direct radiative forcing over Central Greenland: Estimates based on field measurements during the Spring/Summer of 2011. IPY 2012 From Knowledge to Action. Montréal, Canada, 22-27 April, 2012.

Kalashnikova, O.V., J.N. Lee, I. N. Sokolik, M. J. Garay, O. Torres, and M. de la Torre Juares, MISR perspective on spatial and temporal variability of aerosols in East Asian Deserts: Relation to climate factors. AMS 92 Annual Meeting, Jan. 22-26, 2012.

Zhang, H., I. N. Sokolik, and J. A. Curry, Potential impact of dust aerosols on the pre-Helene (2006) mesoscale convective vortex. 2011 Fall Meeting, AGU, San Francisco, CA, Dec. 5-9, 2011.

Sokolik, I.N., V. Tatarskii, X. Xi, and O. Kalashnikova, Examining linkages between decadal changes in regional climate, land-cover and land-use, and dust emission in drylands in Central and East Asia. 2011 Fall Meeting, AGU, San Francisco, CA, Dec. 5-9, 2011.

Strellis, B., M. H. Bergin, I.N. Sokolik, J. E. Dibb, P.J. Sheridan, and J. A. Ogren. The influence of light absorbing aerosols on the radiation balance over Central Greenland. 2011 Fall Meeting, AGU, San Francisco, CA, Dec. 5-9, 2011.

Kumar, P., V. Karydis, D. Barahona, I. N. Sokolik, and A. Nenes, A physically-based approach of treating dust-water cloud interactions in climate models. 2011 Fall Meeting, AGU, San Francisco, CA, Dec. 5-9, 2011.

Lu, Z., I.N. Sokolik, and A. Soja, Assessments of the emission and impact of smoke from the 2002 Yakutsk wildfires using the WRF-Chem-SMOKE model and satellite data. 2011 Fall Meeting, AGU, San Francisco, CA, Dec. 5-9, 2011.

Wright, P., M. H. Bergin, J. E. Dibb, F. Domine, C. Carmagnola, Z. Courville, I. N. Sokolik, B. L. Lefer, Understanding the factors that control snow albedo over Central Greenland. 2011 Fall Meeting, AGU, San Francisco, CA, Dec. 5-9, 2011.

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Sokolik, I.N., What we need to know about dust properties to adequately predict dust radiative impact. Proceedings of the Workshop on Mineral Dust, Boulder, June 9-11, pp.56-57, 1999.

Sokolik, I.N. and O.B. Toon, How the evolution of the chemical and physical properties of mineral dust may affect its radiative impact. In Proceedings of the Sixth IGAC Scientific Conference, Bologna, Italy, Sep. 13-17, 1999.

Sokolik I.N. and O.B. Toon. Processes resulting in the formation of multicomponent tropospheric aerosols containing dust. EOS Trans. AGU, Fall Meeting, Suppl. 1999.

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Quijano, A.L., I. N. Sokolik, and O. B. Toon. Modeling the radiative properties of dust in cloudy atmospheric conditions. Proceedings from the IGAC Symposium, Seattle, WA, August 16-25, 1998.

Sokolik, I.N. and O.B. Toon. Modeling the radiative properties of mineral aerosols for climate studies and remote sensing applications. Proceedings from the 5th International Aerosol Conference, Edinburg, Sep. 12-18, 1998.

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Sokolik, I.N., Toon O.B. and R.W. Bergstrom. Direct radiative forcing by airborne mineral aerosols: regional heating or cooling? Proceedings from the 16th Annual Conference of American Association for Aerosol Research, Denver, CO, October 13-17, 1997.

Sokolik, I.N. and O.B. Toon. Modeling the radiative properties of airborne mineral aerosols. Proceedings from the IGAC Symposium, Nagoya, Japan, November 11-13, 1997.

Quijano, A.L., I. N. Sokolik, and O. B. Toon. Modeling Radiative Heating Rates due to Airborne Mineral Aerosols. EOS Trans. AGU, Fall Meet., Suppl., 1997.

Sokolik I.N., Bergstrom R. W. and O.B.Toon. Modeling of optical and radiative characteristics of the airborne mineral aerosol in infrared region. Proceedings from the AMS Ninth Conference on Atmospheric Radiation, Long Beach, California, February 2-7, 1997.

Sokolik, I.N., Toon O.B. and R.W. Bergstrom. Regional direct radiative forcing by airborne mineral aerosols. Proceedings from the AGU Spring Meeting, Baltimore, MA, 27-30 May, 1997.

Bergstrom, R.W., Mlaver E., Clough A., Sokolik I., Toon O.B., and S. Kinne. Solar radiative transfer under cloud-free conditions. Proceedings from the Conference on Visual Air Quality, Aerosols and Global Radiation Balance, Bartlett, NH, September 9-12, 1997.

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Bergstrom, R., S. Kinne, I. Sokolik, B. Toon, E. Mlawer, T. Clough, and T. Ackerman. A fast accurate radiative transfer model for use in climate codes. Proceedings from the International Radiation Conference, Fairbanks, Alaska, August 16-21, 1996.

Bergstrom, R.W., Sokolik I.N. and O.B. Toon. Effects of airborne mineral aerosol on solar and infrared radiative forcing. Proceedings from the 15t Annual Conference of American Association for Aerosol Research, Orlando, Florida, October 14-18, 1996.

Valero, F.P.J, Sokolik I.N. and P. Pilewskie Airborne measurements of the radiative and optical properties of smoke produced by the biomass burning during the SCAR-C field mission. Proceedings from the AGU Chapman Conference on Biomass Burning and Global Change, Willaimsburg, Virginia, March 13-17 1995.

Sokolik, I.N., F.P.J. Valero, and P. Pilewskie. Variability of radiation characteristics of the plume from the Kuwait oil fires. Proceedings from the AGU Chapman Conference on Biomass Burning and Global Change, Williamsburg, Virginia, March 13-17 1995.

Professional Activities (past 5 years):

Science Team/Committee Membership:
Member, USRA Earth Science Council, 2009-present
Northern Eurasia Earth Science Partnership Initiative (NEESPI), 2003-present
IPY Activity #140, The Hydrologic Impacts of Arctic Aerosol (HIAA), 2007-2009
NASA CALIPSO/CloudSat Science Team, 2005-present
GOSAT (Greenhouse Gases Observing Satellite), Japan Aerospace Exploration Agency, 2008-present

Organization of workshop, conferences or AGU Sessions:
Co-Convener, Bringing Together Environmental, Socioeconomic, and Climatic Change Studies in Northern Eurasia. AGU, Fall Meeting, 2010.
Co-Convener, Session on Environmental, socio-economic and climatic changes in Northern Eurasia and their feedbacks to the Global Earth System, EGU General Assembly, Vienna, Austria, May, 4-7, 2010.
Co-Convener, Environmental, Socioeconomic, and Climatic Changes in Northern Eurasia and Their Feedbacks to the Global Earth System: How Far Have We Advanced in Our Ability to Describe Them? AGU, Fall Meeting, 2009.
Co-Convener, Session on Land-Atmosphere-Cryosphere Interactions in Northern Eurasia, EGU General Assembly, Vienna, Austria, Apr. 14-19, 2009.

Co-Convener, Session on Land-Atmosphere-Cryosphere Interactions in Northern Eurasia, AGU, Fall Meeting, 2008.
Chair, Third International Workshop on Mineral Dust, Leipzig, Germany, Sep. 14-17, 2008.
Co-Organizer, International Workshop on Environmental and Climate Change Problems in High Latitudes of Northern Eurasia, Finland, June 2-6, 2008.
Co-Convener, Session on Northern Eurasia Earth Science Partnership Initiative (NEESPI): Integrated Approach to Regional Climate and Environment Change Studies, AGU, Fall Meeting, 2007.
Co-Organizer, Workshop on Northern Eurasia land surface properties and change and its role in the Global Earth System, Aspen Climate Change Institute, Aspen, CO, Aug., 2007.
Co-Convener, Session on Northern Eurasia Regional Climate and Environmental Change, AGU, Fall Meeting, 2006.
Co-Convener, Session on Northern Eurasia Regional Climate and Environmental Change, AGU, Fall Meeting, 2004.
Chair, Second International Workshop on Mineral Dust, Paris, France, Sep. 10-12, 2003.

Invited Editor:
Special issue on Northern Eurasia Regional Climate and Environmental Change in *Journal of Global and Planetary Change* (published in 2007)
Co-Organizer, Special issue on Quantifying the Radiative and Biogeochemical Impacts of Mineral Dust in *Journal of Geophysical Research- Atmosphere* (published in 2005)
Organizer, Special issue on Mineral Dust: Review of recent progress and remaining challenges (collection of 7 review papers) in *Atmospheric Physics and Chemistry (*2009-2010)

Other:
Journal Reviewer for Science, Nature, PNAS, JGR-Atmosphere, GRL, Tellus, Atmospheric Environment, Atmospheric Chemistry and Physics, Global and Planetary Change, Remote Sensing of Environment
Proposal Reviewer for National Science Foundation, Department of Energy, NOAA, NASA, German National Science Foundation, Netherlands National Science Foundation, French CNRS.
External Promotion and Tenure Package Reviewer for Department of Atmospheric Sciences, University of Utah; Department of Earth System Science, University of California, Irvine; Scripps Institution of Oceanography, University of California; City University of Hong Kong.

Committees –Georgia Institute of Technology:
Member, Institute RPT Committee, 2010-present
Member, College of Sciences, Young Faculty Mentoring Program, 2010-present
Member, College of Sciences, Associate Dean Search Committee, 2009-2010
Member, College of Sciences Dean Advisory Committee, 2004-2007

Chair, EAS School Advisory Committee, 2011-present
Member, EAS Social Committee, 2010-present
Chair, EAS Graduate Studies Committee, 2006- 2009
Member, EAS Graduate Studies Committee, 2009-present
Member, EAS Faculty Search Committee, 2009-2010
Member, EAS Chair Review Committee, 2007-2008
Member, EAS Graduate Studies Committee, 2004- 2006
Member, EAS Faculty Search Committee, 2004-05
Member, EAS Graduate Admissions Committee, 2003-04

Committees –University of Colorado at Boulder:
Chair, Committee on Academic Community and Diversity, Univ. of CO, Fall 2002/Spring03
Member, Art and Science Council, Univ. of CO, Fall2001/Spring03
Member, Personnel Committee, Univ. of CO, Fall2001/Spring02
Member, Executive Committee, Univ. of CO, Fall 2002
Chair, PAOS, Admission Committee, Fall 2002/Spring03
Member, PAOS Executive Committee, Fall2002/Spring03
Member, Post Tenure Review Committee for Prof. Webster, Fall2001
Member, PAOS Admission Committee, Fall2000/Spring01
Member, PAOS Laboratory and Facilities Committee, Fall2000/ Spring01
Member, Tenure committee for Prof. Lynch, Fall2000
Member, PAOS Strategic Plan Committee, Fall2000

Honors, Awards, and Recognitions:

2010 *Outstanding PhD Thesis Advisor Award*, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta.

2009 *Certificate of Appreciation* for valuable contributions that have helped make IPY2007-2008 a success and an enduring example of international collaboration. World Meteorological Organization and International Council for Science.

2008 *Certificate of Appreciation* in recognition of valuable contribution and outstanding support to the Instrument Incubator Program (IIP) and the NASA Earth Science Technology Office.

2008, 2009 *Thank A Teacher Certificates* for excellence in teaching, CETL Georgia Institute of Technology, Atlanta.

2008 *Outstanding Faculty Leadership for the Development of Graduate Research Assistants Award*, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta.

1991 - 1992 Visiting Scientist Fellowship, CIRES, University of Colorado at Boulder.

1993 - 1996 Research Associateship, National Research Council/NASA Ames Research Center.

Membership in Professional and Honor Societies:

American Geophysical Union (AGU)

Graduate and Undergraduate Students Supervised/Principal Advisor:
Ana Lia Quijano (Ph.D. 2001), University of Oxford, UK
Olga Kalashnikova (Ph.D. 2002), Jet Propulsion Laboratory, Pasadena, CA
Kremena Darmenova (Ph.D. 2006), Northup Grumman
Bryan Karpowicz (M.S. 2006), NEON/NSF
Gill-Ran Jeong (Ph.D. 2007), EPA
Thomas Kampe (Ph.D. 2008), NEON/NSF
Anton Darmenov (Ph.D. 2008), NASA Goddard
Gregory Boer (Ph.D. 2009), NGA
Hyung-Jin Choi (Ph.D. 2011), Military Academy, South Korea
Prashant Kumar (PhD. 2011)
Erica Alston ((PhD. students, 2012), NASA Langley
Cindy Young (Jackson) (Ph.D. student, 2009-present), co-advised with Dr. Dufek
Zheng Lu (PhD. student, 2007-present)
Mehmet Ozdes (M.S. student, 2010-present)
Drexel Waggoner (Ph.D. student, 2004-present)
Xi Xin (PhD. student, 2007-present)

Postdoctoral Fellows and Researchers Supervised:
Dr. Aleks Karabanov (2008-present) (part time)
Dr. Henian Zhang (2008-2012)
Dr. Anton Darmenov (2009-2010)
Dr. Kremena Darmenova (2006-2009)
Dr. Yasunori Kurosaki (2006-2008)
Dr. Sandra Lafon (2004- 2006)
Dr. Jie Xuan (2000-2003)

Dissertation/Thesis Committee or Ph.D. Qualifying Examination Committee:
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Teresa Segura, Ph.D. Candidate in PAOS
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